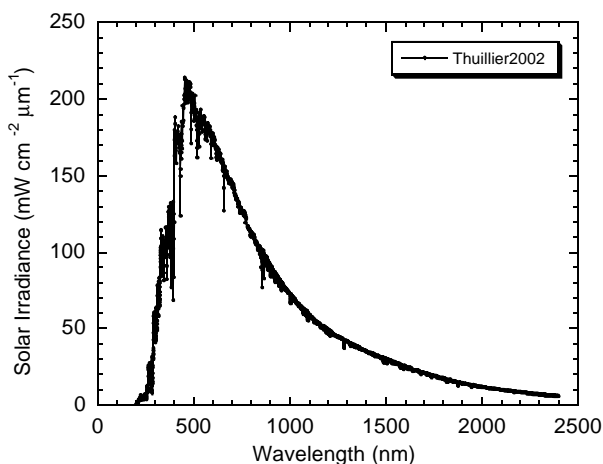


Solar Irradiance

The SeaWiFS Project has received pre-publication solar irradiances from Thuillier (2002). Until publication, these are considered preliminary, evaluation values. They are not final. The irradiances are given in SeaWiFS units ($\text{mW cm}^{-2} \mu\text{m}^{-1}$). The irradiances are given for the wavelength range from 200 nm to 2400 nm.



These irradiances have been interpolated to 1 nm intervals for wavelengths from 380 nm to 1150 nm and convolved (band-averaged) with the SeaWiFS spectral responses. The Thuillier (2002) band-averaged solar irradiances are shown in the following table, along with the band-averaged solar irradiances currently used in SeaWiFS processing (Neckel and Labs, 1984). The table also includes the percent differences from the currently used irradiances.

Neckel and Labs (1984)	Thuillier (2002)	Difference from Neckel and Labs (1984) (%)
170.79	172.81	1.18
189.45	190.20	0.40
193.66	196.26	1.34
188.35	188.02	-0.18
185.33	183.06	-1.22
153.41	151.15	-1.47
122.24	122.29	0.04
98.82	96.19	-2.66

Since the Thuillier (2002) values are still preliminary, they will not be included in the next SeaWiFS reprocessing.

Thuillier, G., M. Hersé, P. C. Simon, D. Labs, H. Mandel, D. Gillotay, and T. Foujols, The solar spectral irradiance from 200 to 2400 nm as measured by the SOLSPEC spectrometer from the ATLAS 1-2-3 and EURECA missions, Solar Physics, to be submitted, 2002.